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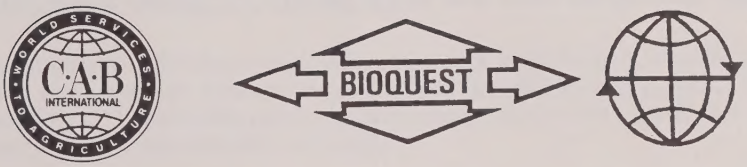

Commonwealth Mycological Institute, Kew

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C·A·B INTERNATIONAL

CAB INTERNATIONAL (CABI), formerly the Commonwealth Agricultural Bureaux, is a cooperative not-for-profit organization owned, administered and financed by member governments. It was established in 1928, currently has 29 members, and has the status and privileges of an international organization in the UK. A new treaty-level constitution, giving CABI the status of an Inter-Governmental Organization, is in the process of ratification.

CABI's organizational structure comprises the Review Conference of member governments, which meets every five years; the Executive Council, with one representative from each member government, which meets four times per year; and the Directorate, including CABI Headquarters and its 14 Institutes and Bureaux. The Director General is the chief executive, controlling the 375 staff, two thirds of whom are at managerial or professional level, through three Directors, for Information, Scientific and Administrative Services.

The organization exists to provide information, scientific and development services for agriculture and allied disciplines throughout the world.

INFORMATION SERVICES

The chief function of the Information Services is to provide ready access to published information on research in agriculture and allied disciplines, including rural development.

Over 100 scientists/linguists at CABI's Bureaux and Institutes scan the world literature, select the significant items, and prepare an informative abstract of each which is entered into the CAB ABSTRACTS database. With some 2 million records in the database since 1973, and 3 million more in printed journals back to 1930, the total archive provides a unique encyclopaedic resource of unsurpassed reliability and quality.

The CAB ABSTRACTS database is publicly accessible online from major international online vendors and from CABI. It is used to provide current awareness and retrospective information services in hard copy and machine-readable form. Chief among these are 46 printed abstract journals, which are taken by 10,000 subscribing organizations worldwide. New journals are started in response to changing users' needs or if sponsors guarantee the circulation. Users needing more specific information may select outputs that match their particular requirements, helped if necessary by CABI's subject experts; outputs are supplied as magnetic tape, computer printout, microfiche or floppy disk. The database is also available on optical disk (CD-ROM), a new technology ideally suited to developing countries. To complete the service, photocopies of original articles are provided on request through the CABI Library Services.

Text processing, database production and data retrieval are provided by CABI's in-house computer centre, which also offers these services to other organizations. The centre is already recognized as the focal point for online access to a portfolio of small bibliographic databases and databanks relevant to agriculture, medicine and development.

Other functions of the Information Services include compilation of specialized databanks and directories, publication of primary journals, authoritative reviews and books, and training in information transfer for librarians, documentalists and information specialists.

SCIENTIFIC SERVICES

The Scientific Services of CABI are provided by four Institutes. Three deal with the science of taxonomy and provide identification and related services; the fourth deals with biological control.

CAB International Institute of Entomology (CIE)

CIE provides an identification service for insects, mites and other arthropods, especially species that are of actual or potential important as pests, parasitoids, predators and pollinators or are otherwise relevant to agriculture, forestry or related subjects. Contract research is also undertaken in these fields. The Institute's taxonomists work in the British Museum (Natural History) where they have access to the Museum's 23 million reference specimens of insects and mites, an incomparable aid to authoritative identifications and research on arthropod classification.

CAB International Mycological Institute (CMI)

CMI is the largest centre for systematic mycology in the world and provides a service for the identification of filamentous fungi and plant-pathogenic bacteria. It has about 300,000 dried reference specimens, a culture collection of more than 12,500 isolates, an extensive library, a Biodeterioration and Industrial Services Laboratory, a Biochemical Laboratory, and a Plant Pathology Liaison Unit. The Institute provides a wide range of consultancy and contract services for plant pathologists and industry. It incorporates the UK National Collection of Fungus Cultures and the Biodeterioration Centre.

CAB International Institute of Parasitology (CIP)

CIP provides an identification service for plant-parasitic and entomophilic nematodes, and helminth parasites of animals and man. The reference collections contain over 65,000 specimens, and an extensive specialist library is maintained. The Tropical Plant Nematology Advisory and Research Unit provides practical advice on plant-parasitic nematodes and their control worldwide, and the Institute also houses the WHO Filarial Reference Collection.

CAB International Institute of Biological Control (CIBC)

CIBC provides information and advice on biological control, undertakes research and implementation of programmes on biological control of major pests and weeds, and participates in integrated pest management programmes in association with other agencies. It has its headquarters in the UK but operates also from stations at Delémont, Switzerland; Bangalore, India; Rawalpindi, Pakistan; Nairobi, Kenya; and Curepe, Trinidad, West Indies.

All four Institutes carry out research, and offer a wide range of training activities from postgraduate studentships to special training courses both in the UK and abroad.

DEVELOPMENT SERVICES

The Development Services provide a focus for CABI consulting activities.

The Development Services Group was established in 1986 to provide a sharper focus for CABI's consulting activities. It draws heavily on the unique scientific expertise and information resources available in the CABI Institutes and Bureaux, and its activities are backed by nearly sixty years of CABI involvement in science and world agriculture.

The Development Services offer practical advice and assistance on many pest-related or environmental problems in agriculture. Specific services include:

- project appraisal
- advice in a range of scientific disciplines
- research supervision
- research evaluation
- project implementation.

These services are offered in situations ranging from short-term individual consultancies to project components and major development projects. The current focus is on:

- integrated pest management programmes
- national crop protection services
- pest/disease identification and control
- crop-orientated pest and disease surveys.

One component of these activities that can be extended to any branch of agriculture or development is the provision of a comprehensive information service, involving expert review and analysis of all relevant literature.

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BIOQUEST LIMITED

Bioquest Limited, the owner of the title of this journal and of its predecessor journals 'International Biodeterioration Bulletin', 'Biodeterioration Research Titles', and 'Waste Materials Biodegradation Research Titles', is a consortium of consultants qualified and experienced in industrial biology, especially biodeterioration and biodegradation.

The Company occupies laboratories at St Peter's College, Birmingham, the premises of the former Biodeterioration Centre of the University of Aston. Dr Eggins, previously the Director of the Biodeterioration Centre, is a director of Bioquest Ltd, with Dr Hopton.

Pragmatic and commercially viable consulting is offered in association with Bioburden Control Limited, of which Dr R. Neil Smith is executive director.

The following client services are undertaken:
Biological advisory and consultancy - covering problem diagnosis, defining assignments and targets, implementation of conclusions. Confidentiality can be assured by disclosure only to a named director and named consultant and associated staff.
Contract research and testing - where the company's own facilities are unsuitable clients will be advised on the placing of work in the best available hands, the project supervised and the results analysed and implemented. Advice will also be given on standard tests.
Training courses and conferences large or small can be arranged and conducted using the Company's own accommodation.
Recruitment and selection of scientific research and management personnel.
Production of scientific and promotional films.

The expertise of the consortium of consultants of Bioquest Ltd and Bioburden Control Ltd. range widely to support the above services - right across the life sciences - and are not confined to the microbial sciences, although bacteriology and mycology are important areas of the companies' works. Specific expertise of the consortium includes: moisture levels related to the growth of fungi; the microbiology of grain storage problems; general biodeterioration problems, especially the fungal damage of materials; the microbiology of waters and oils, paint, plastics, packaging and electrical equipment; the growth survival and destruction of microorganisms; insect infestation control; pesticide protocols; termite and rodent tests; environmental impact of biotechnology; pollution and natural resource management; microorganisms in food production and processing; microbiological safety of food produced in cooking appliances; technical training in food microbiology; clean room validation, scanning electron microscopy, *Legionella* tests, Ames tests, OECD tests for biodegradability.

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ABSTRACT SECTION

1. Bibliographic citations

(a) *Titles.* Titles are given in the original language if a Latin alphabet is used. Russian and Greek titles are given in standard translations for whole publications. English translations are given in square brackets.

(b) *Language Symbols.* The language symbols used are listed below. An initial capital letter denotes the main language of a paper, a small letter the language of the summary (ies).

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